

## Curriculum Vitae

### Prof. Dr. Günther Gustav Hasinger

Institute for Astronomy (IfA)  
University of Hawaii at Manoa  
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### Professional Experience

- 1980 Physics Diploma at Ludwig-Maximilian-Universität (LMU), Munich and MPE
- 1984 PhD in Astronomy at LMU and MPE Garching,
- 1984 - 1994 Scientific employee, MPE Garching, Science with the X-ray satellites EXOSAT, GINGA und ROSAT
- 1992 Visiting Astronomer, California Institute for Technology
- 1993 *Spring Lecturer, Princeton University*
- 1994 - 2001 Full professor at Potsdam University and Director at the Astrophysikalisches Institut Potsdam (AIP)
- 1995 Habilitation, LMU München,
- 1998 - 2001 Managing Director, Astrophysikalisches Institut Potsdam
- 2000 *Marker Lecturer, Penn State University*
- 2001 - 2008 Director of the X-ray and Gamma-Group at MPE Garching
- since 2002 Member of the Berlin-Brandenburg Academy of Sciences (BBAW)
- since 2003 Honorary Professor at the Technical University Munich
- 2004 - 2006 Chair of the Rat deutscher Sternwarten (RDS)
- 2005 *Leibniz Prize of the Deutsche Forschungsgemeinschaft*
- 2007 - 2008 Managing Director of MPE Garching
- 2008 - 2010 Secretary of the BBAW natural sciences class
- since 2008 Scientific Member of the Max-Planck-Institute for Plasma Physics
- 2008 - 2011 Scientific Director of the Max-Planck-Institute for Plasma Physics
- 2008 *Science Book of the Year Award (Schicksal des Universums)*
- 2009 - 2011 Chairman of the European Fusion Development Agreement Steering Committee
- since 2009 Member of the Academia Europaea
- 2010 *COSPAR Award for outstanding contributions to space science*
- since 2011 Director of the Institute for Astronomy, University of Hawaii
- 2011 *Wilhelm-Foerster-Preis, Urania Potsdam*
- since 2011 External member of the Austrian Academy of Sciences
- since 2011 Member of the Leopoldina – German National Academy of Sciences
- 2012 *Prof. Luigi Tartufari International Prize, Accademia Nazionale dei Lincei, Rome*

### Committees and Appointments

- Chair of the Helmholtz Society Review Panel for Space Science (2014)
- Member of the CARA Board of Directors (Keck Telescope) (2013-)
- Member of the AURA Board of Directors (2013-)
- External Advisory Board of the Hungarian Academy of Sciences (2010-2011)
- Kuratorium Karl Heinz Beckurts Foundation (2010-2011)
- Kuratorium Max-Planck-Institute for Quantum Optics (2010-2011)
- Scientific Commission Lower Saxonia, Germany (2010-2011)
- Kuratorium „Welt der Physik“ (2010-2011)
- ESA's High-level Science Policy Advisory Committee HISPAC (2009-2011)
- Chair of European Fusion Development Agreement (EFDA) Steering Committee (2009-2011)
- Consultative Committee for EURATOM Research and Training Program Fusion (2009-2011)
- Kuratorium Deutsches Museum Munich (2009-2016)
- Secretary and Member of the Board of the Berlin-Brandenburg Academy of Sciences (2008-2010)
- SRON Scientific Advisory Committee (2008-2011)
- BMBF Advisory Committee for Astrophysics (2007-2008)

EU Referee for ERC Grants and Crafoord Prize (2007-2008)  
 Chair of the EU Astronet Roadmap Panel A (2007-2008)  
 Chair of the Visiting Committee of the European Southern Observatory (2007)  
 President of the International Astronomical Union Division XI (2006-2009)  
 Chair of the Visiting Committee Astrophysikalisches Institut Potsdam (2006-2009)  
 Chair of the XMM OTAC Cosmology Panel (2006-2008)  
 Scientific Advisory Committee of the Heraeus Foundation (2006-)  
 Science Advisory Committee of the EU Virtual Observatory Project (2006-2008)  
 Science Advisory Committee of the INTEGRAL Science Data Center (2005-2008)  
 Chair of the German Council of Observatories (2004-2006)  
 CPTS Prospective Commission, Max-Planck-Society (2004-2006)  
 Vice President of the International Astronomical Union Division XI (2004-2006)  
 Chair Hubble Space Telescope Treasury Program Advisory Committee (2003-2004)  
 DLR Extraterrestrial Program Committee (2002-2008)  
 Group Chair Physics, Gesellschaft Deutscher Naturforscher und Ärzte (2002-2004)  
 IUPAP Commission 19 (2002-2008)  
 LISA International Science Team (2001-2004)  
 Visiting Committee, Space Science Department of ESA (2001)  
 German-Israeli Foundation, Science Advisor (1999-2005)  
 Vice Chair Visiting Committee Max-Planck-Institute for Astronomy (1998-2001)  
 Panel Chair AXAF (Chandra) Review (1998)  
 Visiting Committee Max-Planck-Institute for Astrophysics (1998-2001)  
 Large Binocular Telescope Board (1998-2001)  
 Chair of the ESO OPC Cosmology Panel (1998-2001)  
 ESA Astronomy Working Group (1996-2001)  
 COSPAR German National Commission (1996-2008)  
 Chair of the Visiting Committee Kiepenheuer Institut Freiburg (1998-2002)  
 Visiting Committee Max-Planck-Institute for Astronomy (1995-2001)  
 BeppoSAX Time Allocation Committee (1995-1998)  
 Vice Chair: BMBF Advisory Committee Astrophysics (1994-2000)  
 Editor Astronomische Nachrichten, JCAP and Springer Lecture Notes in Physics

## Research Interests and Projects

### I. Compact Objects

Supernova Remnants, Plasma Diagnostics (Crab, SN1987A); X-ray Sources in Globular Clusters;  
 Isolated Neutron Stars; Low-mass X-ray Binaries (QPOs, Z-sources, etc.); Black Hole Candidates (Cyg  
 X-1 etc.); Active Galactic Nuclei and their Surrounding, High-redshift Quasars

### II. X-ray Background and Cosmology

Wide-Field X-ray Surveys (RBS, RIXOS, COSMOS, eROSITA); Deepest X-ray Surveys (ROSAT, ASCA,  
 BeppoSAX, XMM, Chandra); Optical Identifications (Keck, VLT, HST); Obscured AGN at multi-  
 frequencies (Radio, sub-mm, FIR, NIR ...); Clusters of Galaxies, Dark Energy

### III. Management Expertise: Instrumentation and Telescopes

XEUS (Next generation X-ray observatory, ESA Cosmic Vision 2015-2025): co-PI (now IXO→ATHENA)  
 eROSITA (German/Russian X-ray telescope to study Dark Energy): Principle Investigator (handed over to  
 P. Predehl)  
 GROND (Gamma-Ray Optical Near-infrared Detector): co-I  
 DUO (NASA/German satellite SMEX proposal): Leading German co-I  
 XMM Survey Scientist Consortium Member  
 PMAS (integral field spectrograph) Principal Investigator (AIP; handed over to M. Steinmetz)  
 ABRIXAS (X-ray Survey Satellite, failed due to power failure): Co-Principal Investigator  
 LBTB (Large Binocular Telescope Board) Director (1998-2001)  
 XMM-Newton Survey Scientist Consortium Member  
 Science Member of ESA Optical Instrument Study for NGST  
 Science Member of VST OmegaCAM project

## 20 Important Publications

### Refereed Journals

- Hasinger, G., van der Klis, M.: *Two patterns of correlated X-ray timing and spectral behaviour in low-mass X-ray binaries*, *Astronomy and Astrophysics* 225, 79 (1989) [670 cit.]
- Comastri, A., Setti, G., Zamorani, G., Hasinger, G.: *The contribution of AGNs to the X-ray background.*, *Astronomy and Astrophysics* 296, 1 (1995) [524 cit.]
- Gilli, R., Comastri, A., Hasinger, G.: *The synthesis of the cosmic X-ray background in the Chandra and XMM-Newton era*, *Astronomy & Astrophysics* 463, 79 (2007) [507 cit.]
- Szokoly, G. P.; Bergeron, J.; Hasinger, G.; Lehmann, I.; Kewley, L., et al.: *Chandra Deep Field-South: Optical Spectroscopy. I.*, *Astrophysical Journal Supplement* 155, 271 (2004) [450 cit.]
- Hasinger, G., Miyaji, T., Schmidt, M.: *Luminosity-dependent evolution of soft X-ray selected AGN. New Chandra and XMM-Newton surveys*, *Astronomy & Astrophysics* 441, 417 (2005) [447 cit.]
- Giacconi, R., Rosati, P., Tozzi, P., Nonino, M., Hasinger, G., et al.: *First Results from the X-Ray and Optical Survey of the Chandra Deep Field South*, *ApJ* 551, 624 (2001) [430 cit.]
- Hasinger, G., Burg, R., Giacconi, R., Schmidt, M., Trümper, J., Zamorani, G.: *The ROSAT Deep Survey. I. X-ray sources in the Lockman Field*, *Astronomy & Astrophysics* 329, 482 (1998) [393 cit.]
- Hasinger, G., Burg, R., Giacconi, R., Hartner, G., Schmidt, M., et al.: *A Deep X-Ray Survey in the Lockman-Hole and the Soft X-Ray N-Log S*, *Astronomy & Astrophysics* 275, 1 (1993) [368 cit.]
- Hasinger, G., Altieri, B., Arnaud, M., Barcons, X., Bergeron, J., et al.: *XMM-Newton observation of the Lockman Hole. I. The X-ray data*, *Astronomy & Astrophysics* 365, L45 (2001) [355 cit.]
- Komossa, S., Burwitz, V., Hasinger, G., Predehl, P., Kaastra, J. S., Ikebe, J.: *Discovery of a Binary Active Galactic Nucleus in the Ultraluminous Infrared Galaxy NGC 6240 Using Chandra*, *Astrophysical Journal* 582, L15 [377 cit.]
- Brandt, W. N., Hasinger, G.: *Deep Extragalactic X-Ray Surveys*, *Annual Review of Astronomy & Astrophysics* 43, 827 (2005) [328 cit.]
- Trümper, J., Hasinger, G., Aschenbach, B., Bräuninger, H., Briel, U. G., et al.: *X-ray survey of the Large Magellanic Cloud by ROSAT*, *Nature* 349, 579 (1991) [252 cit.]
- Gilli, R., Salvati, M., Hasinger, G.: *Testing current synthesis models of the X-ray background*, *Astronomy & Astrophysics* 366, 407 (2001) [248 cit.]
- Miyaji, T., Hasinger, G., Schmidt, M.: *Soft X-ray AGN luminosity function from it ROSAT surveys. I. Cosmological evolution and contribution to the soft X-ray background*, *Astronomy & Astrophysics* 353, 25 (2000) [233 cit.]
- Hasinger, G.: *Absorption Evolution of Active Galactic Nuclei*, *Astronomy & Astrophysics* 490, 905 (2008) [223 cit.]
- Hasinger, G., Cappelluti, N., Brunner, H., Brusa, M., Comastri, A., et al.: *The XMM-Newton Wide-Field Survey in the COSMOS Field. I. Survey Description*, *Astrophysical Journal Supplement* 172, 29 (2007) [216 cit.]
- Belloni, T.; Hasinger, G.: *Variability in the noise properties of Cygnus X-1*, *Astronomy & Astrophysics* 227, L33 (1990) [186 cit.]

### Books

- Hasinger, G.: *Das Schicksal des Universums*, C.H. Beck (2007) [Science Book of the Year 2008 in the category Overview]
- Trümper, J. & Hasinger, G. (eds.): *The Universe in X-Rays* (Astronomy and Astrophysics Library), Springer (2008)
- Hasinger, G.: *Astronom, The Limitless Journey*, UH Press (2015)

In total 345 refereed publications with >27124 citations (H-factor is 83); 423 non-refereed publications, among these >40 invited reviews.